FORM PTO-1390 REV. 5-93	US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEYS DOCKET NUMBER **P99,1762**
TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US)** **CONCERNING A FILING UNDER 35 U.S.C. 371**		U.S.APPLICATION NO. (if known, see 37 CFR 1.5) **09/423501**

INTERNATIONAL APPLICATION NO. **PCT/DE98/01290**	INTERNATIONAL FILING DATE **08 May 1998**	PRIORITY DATE CLAIMED **09 May 1997**

TITLE OF INVENTION
METHOD AND SYSTEM FOR ADMINISTERING PERFORMANCE FEATURES FOR TELEPHONE SUBSCRIBERS

APPLICANT(S) FOR DO/EO/US

Joachim Ungruh et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒   This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐   This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒   This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay.
4. ☒   A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.

5. ☒   A copy of International Application as filed (35 U.S.C. 371(c)(2))
     a. ☒   is transmitted herewith (required only if not transmitted by the International Bureau).
     b. ☐   has been transmitted by the International Bureau.
     c. ☐   is not required, as the application was filed in the United States Receiving Office (RO/US)

6. ☒   A translation of the International Application into English (35 U.S.C. 371(c)(2)

7. ☒   Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. §371(c)(3))
     a. ☐   are transmitted herewith (required only if not transmitted by the International Bureau).
     b. ☐   have been transmitted by the International Bureau.
     c. ☐   have not been made; however, the time limit for making such amendments has NOT expired.
     d. ☒   have not been made and will not be made.

8. ☐   A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).

9. ☒   An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). **EXECUTED**

10 ☐   A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern other document(s) or information included:
11. ☒   An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98; (PTO 1449, Prior Art, Search Report)

12. ☒   An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.
     (See attached envelope)

13. ☒   A FIRST preliminary amendment.
     ☐   A SECOND or SUBSEQUENT preliminary amendment.

14. ☐   A substitute specification.

15. ☐   A change of power of attorney and/or address letter.

16. ☒   Other items or information:
     a. ☒   Submission of Drawings - Fig. 1 on one sheet
     b. ☒   EXPRESS MAIL #EL412789238US dated 11-08-99

APPLICATION NO. (if known, See 37 CFR 1.5)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER
09/423501	PCT/DE98/01290	P99,1762

17. ☒ The following fees are submitted:

	CALCULATIONS	PTO USE ONLY

BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5):

Search Report has been prepared by the EPO or JPO $840.00

International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) .. $720.00

No international preliminary examination fee paid to USPTO (37 C.F.R. 1.482) but international search fee paid to USPTO (37 C.F.R. 1.445(a)(2) $790.00

Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2) paid to USPTO $1070.00

International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) .... $ 98.00

ENTER APPROPRIATE BASIC FEE AMOUNT =	$ 840.00	

Surcharge of $130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)).	$	

Claims	Number Filed	Number Extra	Rate		
Total Claims	10 - 20 =	0	X $ 18.00	$	
Independent Claims	2 - 3 =	0	X $ 78.00	$	
Multiple Dependent Claims			$260.00 +	$	
TOTAL OF ABOVE CALCULATIONS =				$840.00	
Reduction by ½ for filing by small entity, if applicable. Verified Small Entity statement must also be filed. (Note 37 C.F.R. 1.9, 1.27, 1.28)				$	
SUBTOTAL =				$ 840.00	
Processing fee of $130.00 for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492(f)). +				$	
TOTAL NATIONAL FEE =				$ 840.00	
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). $40.00 per property +					
TOTAL FEES ENCLOSED =				$ 840.00	
				Amount to be refunded	$
				charged	$

a. ☒ A check in the amount of $ 840.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. _____ in the amount of $ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 08-2290. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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SIGNATURE

William E. Vaughan
NAME

39,056
Registration Number

BOX PCT

IN THE UNITED STATES ELECTED OFFICE

OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER THE PATENT COOPERATION TREATY-CHAPTER II

PRELIMINARY AMENDMENT

APPLICANTS: Joachim Ungruh et al.   DOCKET NO: P99,1762

SERIAL NO: GROUP ART UNIT:

                                            EXAMINER:

INTERNATIONAL APPLICATION NO: PCT/DE98/01290

INTERNATIONAL FILING DATE: 08 May 1998

INVENTION: **METHOD AND SYSTEM FOR ADMINISTERING**
PERFORMANCE FEATURES FOR TELEPHONE
SUBSCRIBERS

Assistant Commissioner for Patents,
Washington, D.C. 20231

Sir:

Please amend the above-identified International Application before

entry into the National stage before the U.S. Patent and Trademark Office

under 35 U.S.C. §371 as follows:

In The Specification:

On page 1, cancel lines 1-5 and substitute therefor:

--S P E C I F I C A T I O N

TITLE

METHOD AND SYSTEM FOR ADMINISTERING PERFORMANCE

FEATURES FOR TELEPHONE SUBSCRIBERS

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention is directed to both a method and a system for

administering performance features for telephone subscribers wherein such

administration occurs via a personal computer in communication with an

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Internet server which is, in turn, in communication with a telephone exchange which includes a data base pertaining to the desired performance features via a telephone network.

Description of the Prior Art--.

On page 1, line 6, insert --presently-- before "made".

On page 1, line 6, cancel "at present".

On page 1, line 7, insert --, wherein such performance features reside-- after "subscribers".

On page 1, line 8, cancel the "," after "features" and substitute therefor a --(--.

On page 1, line 8, insert a --,-- after "i.e.".

On page 1, line 9, cancel ", ensues proceeding from" and substitute therefor --) occurs via--.

On page 1, line 10, cancel the "," and substitute therefor a -- - --.

On page 1, line 11, cancel "must".

On page 1, line 11, insert --must-- after "also".

On page 1, line 14, cancel "to" and substitute therefor --until--.

On page 1, line 14, cancel "such".

On page 1, line 14, insert --such-- after "context".

On page 1, line 14, cancel "informs" and substitute therefor --informed--.

On page 1, line 15, cancel "are" and substitute therefor --were--.

On page 1, line 18, cancel "matter of a".

On page 1, line 18, cancel "also".

On page 1, line 20, cancel "therefore".

On page 1, line 26, insert --present-- before "invention".

On page 1, line 26, cancel "is" and substitute therefor a --,--.

On page 1, line 26, cancel "comprised in specifying" and substitute therefor --, is to specify--.

On page 2, cancel lines 1-2 and substitute the following centered heading therefor:

--SUMMARY OF THE INVENTION--.

On page 2, line 3, cancel "accord therewith" and substitute therefor --accordance with the present invention, therefore--.

On page 2, line 5, cancel "therefore".

On page 2, line 6, cancel "a" before "data".

On page 2, line 6, insert --, which is-- after "equipment".

On page 2, line 7, cancel "and" and substitute therefor a --,--.

On page 2, lines 8-9, cancel ", this being" and substitute therefor -- which is--.

On page 2, line 10, cancel "being capable of communicating".

On page 2, line 10, cancel "said" and substitute therefor --the--.

On page 2, include the paragraph which begins on line 12 in the paragraph which ends on line 11.

On page 2, line 12, insert a --,-- after "is".

On page 2, line 12, insert a --,-- after "thus".

On page 2, line 17, cancel ", as recited in patent claim 2".

On page 2, line 17, insert --, thus,-- after "administration".

On page 2, line 18, cancel "thus".

On page 2, line 18, cancel "and" and substitute therefor --wherein--.

On page 2, include the paragraph which begins on line 20 in the paragraph which ends on line 19.

On page 2, line 20, insert a --,-- after "administration".

On page 2, line 21, cancel "can" and substitute therefor a --,--.

On page 2, line 21, insert --can-- after "also".

On page 2, line 22, cancel ", said" and substitute therefor -- - the--.

On page 2, line 23, cancel "According to patent claims 3 and 4" and substitute therefor --In an embodiment--.

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On page 2, line 24, cancel "can ensue" and substitute therefor --may occur--.

On page 2, line 24, cancel "will".

On page 2, line 24, insert --will-- after "usually".

On page 2, line 25, cancel "ensues" and substitute therefor --occurs--.

On page 2, line 25, insert a --,-- after "subscriber".

On page 2, line 25, cancel ", on the other hand, ensues".

On page 2, cancel line 28.

On page 2, line 29, cancel "inventive method. Said" and substitute therefor In a further embodiment, the--.

On page 2, line 29, cancel ", accordingly,".

On page 2, line 29, insert --a-- before "node".

On page 3, line 5, cancel "said" and substitute therefor --the--.

On page 3, cancel lines 6-9 and substitute therefor:

--Additional features and advantages of the present invention are described in, and will be apparent from, the Detailed Description of the Preferred Embodiments and the Drawings.

DESCRIPTION OF THE DRAWINGS

Fig. 1 schematically illustrates the administration of subscriber performance features by a telephone subscriber in accordance with the teachings of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS--.

On page 3, line 10, cancel "It" and substitute therefor --Fig. 1--.

On page 3, line 10, cancel "also".

On page 3, line 10, insert --both-- after "includes".

On page 3, line 11, cancel "a" after "of".

On page 3, line 17, cancel "said" and substitute therefor --the--.

On page 3, line 17, insert --, thus,-- after "subscriber".

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On page 3, line 17, cancel "thus".

On page 3, line 18, insert a --,-- after the ")".

On page 3, line 18, cancel the "," and substitute therefor a --;--.

On page 3, line 18, insert a --,-- after "i.e.".

On page 3, line 19, cancel "for".

On page 3, line 21, cancel ", these indicating" and substitute therefor --. These blocks indicate--.

On page 4, line 1, cancel "fashioned" and substitute therefor --configured--.

On page 4, line 2, cancel the "," after "connection" and substitute therefor a --(--.

On page 4, line 2, insert a --,-- after "i.e.".

On page 4, line 2, cancel "said" and substitute therefor --the--.

On page 4, line 2, cancel ", i.e." before "with".

On page 4, line 3, cancel the "," after "case" and substitute therefor a --)--.

On page 4, line 3, cancel "can" and substitute therefor --it--.

On page 4, line 3, insert --can-- after "also".

On page 4, line 5, cancel "the figure" and substitute therefor --Fig. 1--.

On page 4, line 8, cancel "The figure" and substitute therefor --Fig. 1--.

On page 4, line 9, cancel "a".

On page 4, line 10, insert --also-- after "in".

On page 4, line 10, cancel "also".

On page 4, line 12, cancel "long" and substitute therefor --log--.

On page 4, line 12, insert --POP-- after "node".

On page 4, line 12, cancel the ",".

On page 4, line 12, insert --also-- after "it".

On page 4, line 12, cancel "also".

On page 4, line 13, cancel the "-" and substitute therefor a --(--.

On page 4, line 14, cancel the "-" and substitute therefor a --)--.

On page 4, line 16, cancel "the figure" and substitute therefor --Fig. 1--.

On page 4, line 17, cancel "ensues" and substitute therefor --occurs--.

On page 4, line 20, cancel "whereby" and substitute therefor --wherein--.

On page 4, line 21, insert a --(-- before "such".

On page 4, line 22, insert a --,-- after "calls" and before the " " ".

On page 4, line 22, cancel the "," before "or".

On page 4, line 22, cancel ", on the other hand,".

On page 4, line 24, insert a --,-- after "forwarding" and before the " " ".

On page 4, line 24, cancel the "," before "then".

On page 4, line 26, cancel the "," and substitute therefor a --(--.

On page 4, line 26, insert a --,-- after "i.e.".

On page 4, line 27, cancel the "," and substitute therefor a --)--.

On page 4, line 28, cancel the "," and substitute therefor --POP;--.

On page 5, line 1, cancel "said" and substitute therefor --the--.

On page 5, line 10, cancel "ensue" and substitute therefor --occur--.

On page 5, line 11, cancel the "," and substitute therefor a --;--.

On page 5, line 14, cancel "communication" and substitute therefor --communicate--.

On page 5, line 16, cancel "ensues" and substitute therefor --occurs--.

On page 5, line 17, cancel "whereby" and substitute therefor --wherein--.

On page 5, line 18, cancel "ensues" and substitute therefor --occurs--.

On page 5, line 21, insert a --,-- after "subscribers".

On page 5, line 21, cancel "can".

On page 5, line 21, insert --can-- after "also".

On page 5, line 23, cancel "thus".

On page 5, line 23, insert --of-- after "matter".

On page 5, line 24, cancel "of" before "the".

On page 5, after line 24, insert the following paragraph:

--Indeed, although the present invention has been described with reference to specific embodiments, those of skill in the art will recognize that changes may be made thereto without departing from the spirit and scope of the invention as set forth in the hereafter appended claims.--

On page 7 (last page), cancel lines 1-3 and substitute the following centered heading therefor:

--**ABSTRACT OF THE DISCLOSURE**

On page 7, line 4, cancel "The" and substitute therefor --A method and system for administering performance features for telephone subscribers wherein such--.

On page 7, lines 4-5, cancel "for telephone subscribers ensues proceeding from" and substitute therefor --occurs via--.

On page 7, line 5, cancel "(TLPC)".

On page 7, line 5, insert a --,-- after "communication".

On page 7, line 6, insert a --,-- after "connection".

On page 7, line 6, cancel "(WWW-s)".

On page 7, line 7, cancel "can".

On page 7, line 7, insert --can-- after "also".

On page 7, line 7, cancel "(TN)".

On page 7, line 8, cancel "(LE1)".

On page 7, line 8, cancel "(TB)".

On page 7, cancel line 9.

In the Claims:

On page 6, cancel line 1 and substitute the following left-hand justified heading therefor:

--**We Claim As Our Invention**--.

Please cancel claims 1-5, without prejudice, and substitute the following claims therefor:

6.   A method for administering performance features for a telephone subscriber, the method comprising the steps of:

providing data terminal equipment with a display at a location undertaking the administration of the performance features;

employing a telephone exchange containing a data base pertaining to the performance features;

effecting an Internet connection between the data terminal equipment and an Internet server through the use of an Internet browser; and

effecting a telecommunications connection between the Internet server and the telephone exchange, wherein communication between the data terminal equipment and the telephone exchange is ultimately established for the administration of the performance features.

7.   A method for administering performance features for a telephone subscriber as claimed in claim 6, wherein the administration of the performance features proceeds from a personal computer of the telephone subscriber.

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8.   A method for administering performance features for a telephone subscriber as claimed in claim 6, wherein the administration of the performance features proceeds from a service center personal computer.

9.   A method for administering performance features for a telephone subscriber as claimed in claim 6, wherein access of the data terminal equipment to the Internet occurs via a telephone network.

10.   A method for administering performance features for a telephone subscriber as claimed in claim 6, wherein access of the data terminal equipment to the Internet occurs via a data line connection.

11.   A system for administering performance features for a telephone subscriber, comprising:

data terminal equipment with a display at a location undertaking the administration of the performance features;

a first telephone exchange containing a data base pertaining to the performance features;

an Internet connection connecting the data terminal equipment to an Internet server through the use of an Internet browser;

a telecommunications connection connecting the Internet server to the first telephone exchange, wherein communication between the data terminal equipment and the first telephone exchange is ultimately established for the administration of the performance features; and

a second telephone exchange containing both a node for the Internet and a switching technology apparatus, wherein the Internet server is a component part of a log on the node, and wherein the second telephone exchange further contains a first switching-oriented application that

corresponds to a second switching-oriented application that supplements the switching technology apparatus.

12.   A system for administering performance features for a telephone subscriber as claimed in claim 11, wherein the data terminal equipment is a personal computer of the telephone subscriber.

13.   A system for administering performance features for a telephone subscriber as claimed in claim 11, wherein the data terminal equipment is a service center personal computer.

14.   A system for administering performance features for a telephone subscriber as claimed in claim 11, wherein the telecommunications connection is effected by a telephone network, and wherein access of the data terminal equipment to the Internet occurs via the telephone network.

15.   A system for administering performance features for a telephone subscriber as claimed in claim 11, wherein the telecommunications connection is effected by a data line connection, and wherein access of the data terminal equipment to the Internet occurs via the data line connection.
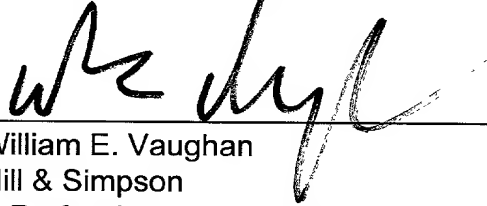
REMARKS

The present amendment makes editorial changes and corrects typographical errors in the specification in order to conform the specification to the requirements of the United States Patent practice. No new matter is added thereby. Original claims 1-5 have been canceled in favor of new claims 6-15. However, claims 6-15 have been presented solely because the revisions by bracketing and underlining which would have been necessary

in claims 1-5 in order to conform those claims to the requirements of United States Patent practice would have been too extensive, and thus would have been too burdensome. The cancellation of claims 1-5 does not constitute an intent on the part of the Applicants to surrender any of the subject matter of claims 1-5.

Early consideration on the merits is respectfully requested.

Respectfully submitted,

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1

METHOD AND ARRANGEMENT FOR ADMINISTERING PERFORMANCE FEATURES FOR TELEPHONE SUBSCRIBES

The invention is directed to a method for administering performance features for telephone subscribers and is also directed to an arrangement for the implementation

5   of this method.

A multitude of performance features are made available at present to telephone subscribers in the telephone exchange to which these are connected. Usually, the administration of such performance features, i.e. the establishment and, potentially, modification thereof, ensues proceeding from a central location responsible for a plurality

10   of telephone exchanges, what is referred to as an O&M center (Operation & Maintenance). For a plurality of performance features, however, the possibility must also be established that the subscriber himself can influence an administration of performance features.

Up to now, one has proceeded such in this context that the subscriber informs

15   the telecommunications administration of his establishment or modification wish for a performance feature, and the corresponding administrative jobs are subsequently implemented by the service personnel in the appertaining telephone exchange. This, of course, is a matter of a personnel-intensive procedure that, moreover, also involves long waiting times until the execution of the customer wishes.

20   For performance features for which this cannot be accepted, there is therefore the possibility that the telephone subscriber can activate and, potentially, modify performance features proceeding from the terminal equipment by inputting numerical combinations. The procedures required for this purpose, however, are complicated and not very user-friendly because of the plurality of performance features coming into

25   consideration.

The object of the invention is therefore comprised in specifying a method that makes the administration of performance features less time-consuming and more comfortable for telephone subscribers compared to prior conditions.

For achieving this object, such a method comprises the features of the characterizing part of patent claim 1.

In accord therewith, the communication required for such an administration between a location undertaking the administration and the telephone exchange wherein the data base pertaining to the performance features is contained is therefore sequenced upon utilization of an Internet connection of a data terminal equipment provided with a display and working with an Internet browser that is located at the site of the location undertaking the administration. An Internet server is established for this purpose, this being capable of communicating, on the one hand, with the data terminal equipment via an Internet connection and, on the other hand, being capable of communicating with said telephone exchange via a telecommunications connection.

A graphic user interface is thus made available for the administration of performance features, this graphic user interface being particularly predestined for such jobs.

The advantages of the invention particularly take effect in the above-discussed application wherein the performance feature administration is to be undertaken by the telephone subscriber himself, as recited in patent claim 2. The administration can thus be undertaken proceeding from the telephone subscriber's personal computer, and the offering of a special telephone terminal equipment is not required.

However, the inventive method for the exchange administration including the administration of subscriber performance features can also be advantageously applied from a service center, said O&M Center.

According to patent claims 3 and 4, the access of the data terminal equipment to the Internet can ensue via the telephone network, which will usually be the case when the administration ensues by the telephone subscriber or, on the other hand, ensues via a data line connection, which is more likely to be the case when the administration is undertaken proceeding from a service center.

Claim 5 recites a expedient arrangement for the implementation of the inventive method. Said Internet server, accordingly, is a component part of a log on node

for the Internet integrateu irto a telephone exchange. In order to enable a communication with the operations and maintenance technology of this telephone exchange, the Internet server contains an operations and maintenance application that corresponds to an operations and maintenance application with which the operations and maintenance

5   technology of said telephone exchange is supplemented.

The invention is explained in greater detail below with reference to an exemplary embodiment and to a figure.

The figure mainly serves the purpose of explaining the conditions in an administration of subscriber performance features by the telephone subscriber himself.

10   It shows a telephone network TN which also includes a first local telephone exchange LE1 and a second local telephone exchange LE2. The connection of a telephone terminal equipment TLF and of a personal computer TLPC of a telephone subscriber via a subscriber line TLA is shown at the local exchange LE1.

A log on node POP into the Internet is indicated as a component part of the

15   local exchange LE2. The personal computer TLPC is intended to have access to the telephone network T via a modem (not shown) and, from the latter, to the Internet via said log on node POP. The subscriber should thus have a browser, for example a WWW browser (Worldwide Web) available, i.e. a possibility and a comfortable graphic interface for accessing and for displaying data available in the Internet. For illustrating such an

20   Internet connection, blocks having fields TCP, IP and PPP are shown at the personal computer of the subscriber TLPC and at the log on node POP, these indicating the protocols of transmission control protocol (TCP), Internet Protocol (IP) and Point-to-Point Protocol (PPP) employed given a communication via the Internet.

The switching technology software critical for the creation of telephone

25   connections is referenced VT at the local exchanges LE1 and LE2. Moreover, the subscriber data base in which the entries for the subscriber performance features are also located is indicated as TB at the local exchange LE1.

A specific Internet server, a WWW server here, belongs to the Internet log on node POP shown as a component part of the local exchange LE2. This server is

fashioned such that, on the one hand, it can communicate with an Internet subscriber via an Internet connection, i.e. upon employment of said protocols TCP/IP, i.e. with the personal computer TLPC in this case, and, on the other hand, can also exchange information with the local exchange LE1 via a telephone connection. In order to enable 5 this, this server, as indicated in the figure, is equipped with a switching-oriented application VTAS that corresponds to a switching-oriented application VTALE by which the switching technology VT of the local exchange LE2 is expanded.

The figure also shows a service center O&M (Operation and Maintenance) at which a data terminal equipment PC is likewise shown. This service center is in 10 communication here with the log on node POP via a data line. However, it would also be conceivable that this service center, like the personal computer TLPC, reaches the long on node via a line of the telephone network, as it would also be conversely possible that the connection of the personal computer TLPC of the telephone subscriber - differing from that shown - does not have access to the log on node POP and, thus, to the specific 15 server WWW-s of the Internet via the telephone network but via a data line. Broken connecting lines in the figure also indicate the possibility that the access of the personal computer (TLPC) of a telephone subscriber or of a service center (O&M-PC) ensues via connecting paths of the Internet INT.

When an administration of performance features is to be undertaken 20 proceeding from the telephone subscriber, whereby it will be a matter of activation or deactivation in most instances such as, for example, the performance features of "do-not-disturb" and "display telephone numbers of outgoing calls", or, on the other hand, modify inputs come into consideration such as given the performance feature of "call forwarding", then, in conformity with the inventive method, the telephone subscriber sets 25 up an Internet connection of his personal computer TLPC via the telephone network and the log on node POP. The telephone number of the connection to be administered, i.e. his telephone number, is to be communicated via his WWW browser to the WWW server WWW-s belonging to the log on node, being communicated thereto in the form of an Internet message.

Due to said switching-oriented application VTAS, this server is in the position to forward this telephone number via the switching-oriented application VTALE to the switching technology VT of the local exchange LE2. This can occur, for example, via an ISDN-D channel message when the log on node POP is connected to the local

5 exchange LE2 in the form of an ISDN primary connection. Under the control of the switching-oriented application VTALE or, respectively, of the switching technology VT, a connection is set up via the telephone network T to the local exchange LE1 that can be recognized based on the telephone number and at which the inquiring telephone subscriber has his personal computer TLPC connected. The communication of this

10 message can thereby ensue, for example, in the signaling channel according to the signaling system No. 7 of the telephone network, see the connection arrow between the blocks No. 7CC at the two local exchanges symbolizing the signaling software. The telephone subscriber is thus in the position, upon utilization of his WWW browser that offers him a corresponding comfortable user interface, to communication with the data

15 base of his own telephone exchange LE. The data exchange between PC and the WWW server thereby ensues in the form of the exchange of data packets according to the Internet protocol (IP), whereby a conversion for continuing this communication via the telephone network respectively ensues on the basis of the switching-oriented application VTAS.

20 As already indicated above, the inventive method is not limited to the performance feature administration of telephone subscribers but can also be advantageously utilized for switching center administration including subscriber administration proceeding from the service center when it is thus a matter, for example, of the establishment of new telephone connections and the like.
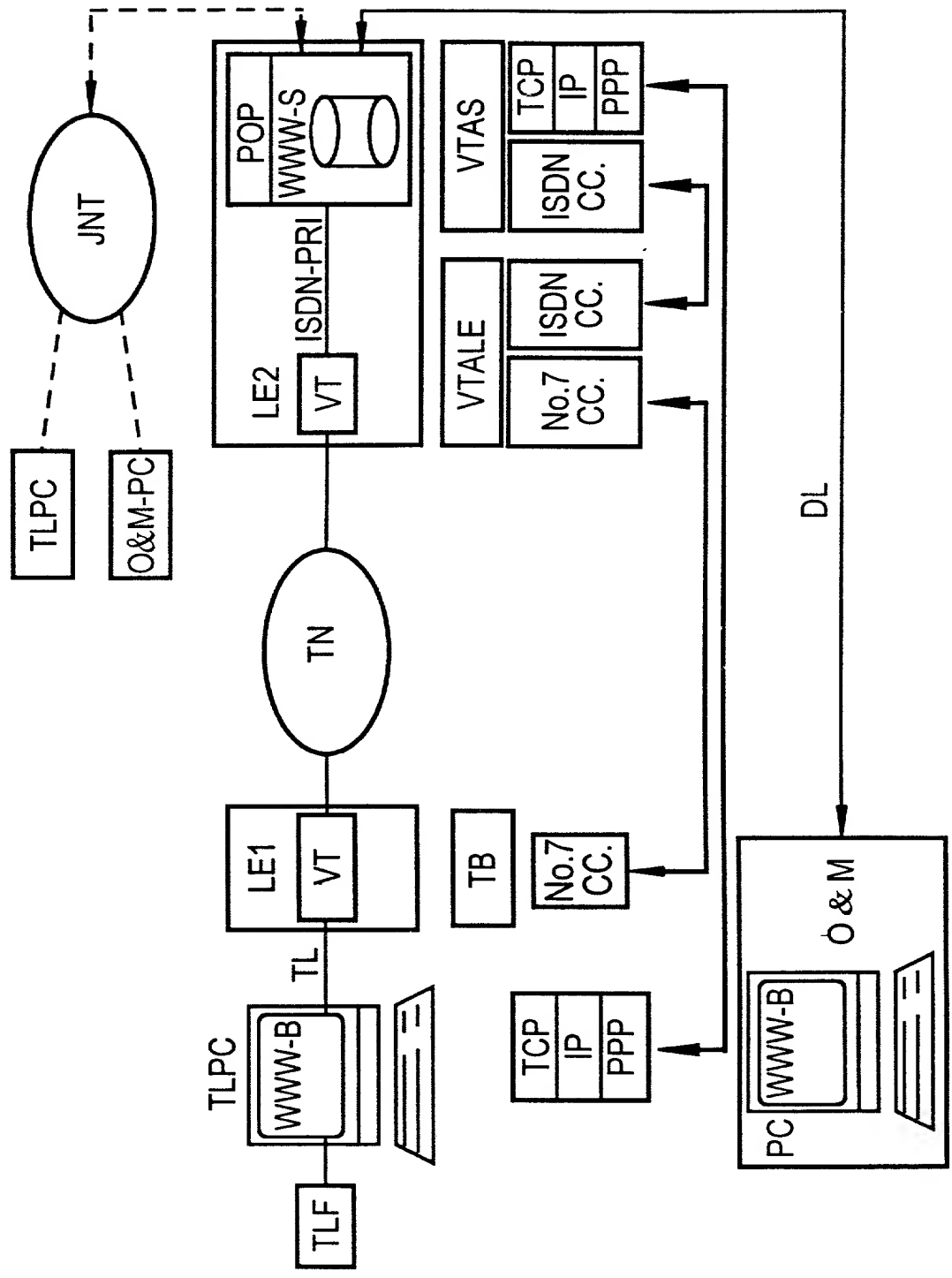
Patent Claims

1.   Method for administering performance features for telephone subscriber, characterized in that the communication required for such an administration between a location undertaking the administration and the telephone exchange (LE1) in which the data base (TB) pertaining to the performance features is contained ensues upon utilization of an Internet connection of a data terminal equipment (TLPC, PC) provided with a display and working with an Internet browser, preferably a personal computer at the site of the location undertaking the administration, to which end an Internet server (WWW-s) is made available that, on the one hand, can communicate with the data terminal equipment (TLPC, PC) via an Internet connection and, on the other hand, can communicate with said telephone exchange (LE1) via a telecommunications connection.

2.   Method according to claim 1, characterized in that the administration of the performance features ensues proceeding from a service center (O&M) and/or proceeding from the telephone subscriber.

3.   Method according to claim 1 or 2, characterized in that the access of the data terminal equipment (TLPC, PC) to the Internet ensues via the telephone network.

4.   Method according to one of the claims 1 or 2, characterized in that the access of the data terminal equipment (PC) to the Internet ensues via a data line connection (DL).

5.   Arrangement for the implementation of the method according to one of the preceding claims, characterized in that said Internet server (WWW-s) is a component part of a log on node (POP) for the Internet integrated in a telephone exchange (LE2) and, for enabling a communication with the switching technology (VT) of this telephone exchange, contains a switching-oriented application (VTAS) that corresponds to a switching-oriented application (VTALE) that supplements the switching technology (VT) of the telephone exchange (LE2).

Abstract

Method and Arrangement for Administering Performance Features for Telephone Subscribers

The administration of performance features for telephone inscribers ensues proceeding from a PC (TLPC) of the subscriber that is in communication via an Internet connection with an Internet server (WWW-s) that, in addition to communicating with the PC, can also communicate via the telephone network (TN) with the telephone exchange (LE1) in which the data base (TB) pertaining to the performance features is located. FIGURE 1

Declaration and Power of Attorney For Patent Application
Erklärung Für Patentanmeldungen Mit Vollmacht
German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

As a below named inventor, I hereby declare that.

dass mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,

My residence, post office address and citizenship are as stated below next to my name,

dass ich, nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Verfahren und Anordnung zum Verwalten von Leistungsmerkmalen für Fernsprechteilnehmer

_____

_____

_____

deren Beschreibung

the specification of which

(zutreffendes ankreuzen)

(check one)

[X] hier beigefügt ist.

[ ] is attached hereto.

[ ] am _____ als
PCT internationale Anmeldung
PCT Anmeldungsnummer _____
eingereicht wurde und am _____
abgeändert wurde (falls tatsachlich abgeändert).

[ ] was filed on _____ as
PCT international application
PCT Application No. _____
and was amended on _____
(if applicable)

Ich bestätige hiermit, dass ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell durch einen Zusatzantrag wie oben erwähnt abgeändert wurde.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above.

Ich erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) von Wichtigkeit sind, an.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a)

Ich beanspruche hiermit ausländische Prioritätsvorteile gemass Abschnitt 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 119 aller unten angegebenen Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde, und habe auch alle Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde nachstehend gekennzeichnet, die ein Anmeldedatum haben, das vor dem Anmeldedatum der Anmeldung liegt, fur die Priorität beansprucht wird.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

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German Language Declaration

Prior foreign appplications
Priorität beansprucht

Priority Claimed

<u>197 19 704.3</u>	<u>Germany</u>	09. Mai 1997	☒	☐
(Number)	(Country)	(Day Month Year Filed)	Yes	No
(Nummer)	(Land)	(Tag Monat Jahr eingereicht)	Ja	Nein

			☐	☐
(Number)	(Country)	(Day Month Year Filed)	Yes	No
(Nummer)	(Land)	(Tag Monat Jahr eingereicht)	Ja	Nein

			☐	☐
(Number)	(Country)	(Day Month Year Filed)	Yes	No
(Nummer)	(Land)	(Tag Monat Jahr eingereicht)	Ja	Nein

Ich beanspruche hiermit gemäss Absatz 35 der Zivil-prozessordnung der Vereinigten Staaten, Paragraph 120, den Vorzug aller unten aufgeführten Anmel-dungen und falls der Gegenstand aus jedem Anspruch dieser Anmeldung nicht in einer früheren amerikanischen Patentanmeldung laut dem ersten Paragraphen des Absatzes 35 der Zivilprozeßordnung der Vereinigten Staaten, Paragraph 122 offenbart ist, erkenne ich gemäss Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) meine Pflicht zur Offenbarung von Informationen an, die zwischen dem Anmeldedatum der früheren Anmeldung und dem nationalen oder PCT internationalen Anmeldedatum dieser Anmel-dung bekannt geworden sind.

I hereby claim the benefit under Title 35. United States Code. §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §122, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occured between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No.)	(Filing Date)	(Status)	(Status)
(Anmeldeseriennummer)	(Anmeldedatum)	(patentiert, anhangig, aufgegeben)	(patented, pending, abandoned)

(Application Serial No.)	(Filing Date)	(Status)	(Status)
(Anmeldeseriennummer)	(Anmeldedatum)	(patentiert, anhängig, aufgeben)	(patented, pending, abandoned)

Ich erkläre hiermit, dass alle von mir in der vorliegen-den Erklärung gemachten Angaben nach meinem besten Wissen und Gewissen der vollen Wahrheit entsprechen, und dass ich diese eidesstattliche Erklä-rung in Kenntnis dessen abgebe, dass wissentlich und vorsätzlich falsche Angaben gemäss Paragraph 1001, Absatz 18 der Zivilprozessordnung der Vereinigten Staaten von Amerika mit Geldstrafe belegt und/oder Gefängnis bestraft werden koennen, und dass derartig wissentlich und vorsätzlich falsche Angaben die Gül-tigkeit der vorliegenden Patentanmeldung oder eines darauf erteilten Patentes gefährden können.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

German Language Declaration

<table>
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<td>

VERTRETUNGSVOLLMACHT: Als benannter Erfinder beauftrage ich hiermit den nachstehend benannten Patentanwalt (oder die nachstehend benannten Patentanwälte) und/oder Patent-Agenten mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Geschäfte vor dem Patent- und Warenzeichenamt: *(Name und Registrationsnummer anführen)*

</td>
<td>

POWER OF ATTORNEY. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

</td>
</tr>
</table>

And I hereby appoint

Messrs. John D. Simpson (Registration No. 19,842) Lewis T. Steadman (17,074), William C. Stueber (16,453), P. Phillips Connor (19,259), Dennis A. Gross (24,410), Marvin Moody (16,549), Steven H. Noll (28,982), Brett A. Valiquet (27,841), Thomas I. Ross (29,275), Kevin W. Guynn (29,927), Edward A. Lehmann (22,312), James D. Hobart (24,149), Robert M. Barrett (30,142), James Van Santen (16,584), J. Arthur Gross (13,615), Richard J. Schwarz (13,472) and Melvin A. Robinson (31,870), David R. Metzger (32,919), John R. Garrett (27,888) all members of the firm of Hill, Steadman & Simpson, A Professional Corporation.

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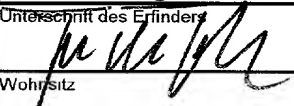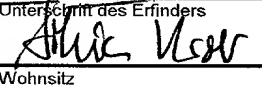Telefongespräche bitte richten an: *(Name und Telefonnummer)*

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312/876-0200
Ext. _____

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Postanschrift:

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Send Correspondence to:

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HILL, STEADMAN & SIMPSON
A Professional Corporation
85th Floor Sears Tower, Chicago, Illinois 60606

<table>
<tr>
<td>Voller Name des einzigen oder ursprünglichen Erfinders:

Joachim Ungruh</td>
<td>Full name of sole or first inventor:</td>
</tr>
<tr>
<td>Unterschrift des Erfinders   Datum   31.07.91</td>
<td>Inventor's signature   Date</td>
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<tr>
<td>Wohnsitz
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<tr>
<td>Staatsangehörigkeit
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<td>Voller Name des zweiten Miterfinders (falls zutreffend):

Silvia Krob</td>
<td>Full name of second joint inventor, if any:</td>
</tr>
<tr>
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</table>

(Bitte entsprechende Informationen und Unterschriften im Falle von dritten und weiteren Miterfindern angeben).

(Supply similar information and signature for third and subsequent joint inventors).

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Thomas Lange	

Unterschrift des Erfinders	Datum	Inventor's signature	Date
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Staatsangehörigkeit	Citizenship
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Andreas Lindenthal	

Unterschrift des Erfinders	Datum	Inventor's signature	Date
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Staatsangehörigkeit	Citizenship
Bundesrepublik Deutschland	

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(Bitte entsprechende Informationen und Unterschriften im Falle von dritten und weiteren Miterfindern angeben).

(Supply similar information and signature for third and subsequent joint inventors).